

# Team Meeting

January 12, 2017

3:30pm

ThinkTank

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Ben, Dev

## *Minutes*

**Agenda item:** Winter Break Progress

### **Discussion:**

Code needed to be developed and understood to the point where it can track a dot on the tendon and plot it. Ben was to continue looking at matlab and develop a code. Gretchen was going to learn more about labview data acquisition and craig was assisting ben in matlab as well as considering different mounting options

### **Conclusions:**

Kelie was able to develop a code for dot tracking on labview. For now, we just need to execute it in the way we see fit. Gretchen also is assisting with the labview and going to help develop a code. Ben was able to get matlab up and running but it is proving to be not so user friendly. Craig looked into labview and matlab coding as well as the camera a little more.

- **Weekly meetings have been changed to Wednesday mornings at 9:45am in JML 82 for the spring 2017 semester.**

### **Action items**

- ✓ Develop LabView code to our liking
- ✓ Keep adjusting Matlab

### **Person responsible**

Kelie, Gretchen, Craig  
Ben

### **Deadline**

N/A  
N/A

**Agenda item:** Upcoming Design Review

### **Discussion:**

Our second design review is coming up. We are currently planning for during one of our meeting times. Will discuss this with Dr. Schiele and Dev a little more in the upcoming weeks

### **Conclusions:**

This design review is crucial for showing our progress over break and coming into the new semester. Major progress has been made with code and camera.

### **Action items**

- ✓ Email Dev & Dr. Schiele about design review time

### **Person responsible**

Kelie

### **Deadline**

Jan 19

# Team Meeting

January 18, 2017

9:45am

JML 82

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**Meeting called by:** The Dev-elothers

**Type of meeting:** Weekly team meeting

**Attendees:** None

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## *Minutes*

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**Agenda item:** MEETING CANCELED DUE TO WEATHER  
CONDITIONS AND CAMPUS CLOSURE

# Team Meeting

January 25, 2017

9:45 A.M.

JML 82

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**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev

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## *Minutes*

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**Agenda item:** Design Review: Where to go from here?

**Discussion:**

We have our second design review coming up and we would like to have a date set for that in the near future. We would also like to have some kind of a plan as far as where we would like to be design-wise by then

**Conclusions:**

The team has discussed the possibility of having the design review on Feb 8<sup>th</sup> during our regular team meeting time in JML computer lab so that we know the whole team can attend without any conflicts as well as Dev. We just need confirmation this time works for Dr. Schiele. We would like to have our code up and for sure tracking one dot in order to see how Dr. Schiele feels about this. We would also like to consider mounting.

**Action items**

- ✓ Dot tracking established in code
- ✓ Mounting options?

**Person responsible**

Kelie & Gretchen  
Craig

**Deadline**

Feb 8  
N/A

# Team Meeting

February 1, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

## *Minutes*

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**Agenda item:** Camera Purchase

**Discussion:**

We would like to get the camera purchased before the design review regardless if we have it by then or not.

**Conclusions:**

Craig and Kelie will get ahold of Dr. Schiele to order the camera or allow Craig to order the camera. We just want to make sure Dr. Schiele is comfortable with this camera before continuing.

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**Agenda item:** Design Review Set Date

**Discussion:**

Dr. Schiele was contacted and assure us this time and date would work for him. Dev and him have a meeting at 10:30 so we will need to make sure it only goes until about 10-10:15

**Conclusions:**

Design review 2 is set for 9:30 at JML 82 on February 8<sup>th</sup>.

**Action items**

✓ Camera Purchase

**Person responsible**

Craig

**Deadline**

Feb 8<sup>th</sup>

# Team Meeting

February 15, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev

## *Minutes*

**Agenda item:** Mounting/Lighting

### **Discussion:**

Not exactly sure where we are with mounting due to Ben being absent. But I believe he has decided on purchasing the mounting arm.

### **Conclusions:**

We will try to discuss this with Ben before the next meeting

**Agenda item:** Coding and Camera Integration

### **Discussion:**

Our code has given Gretchen and I problems with software years as well as the two dot tracking for the displacement measurement.

### **Conclusions:**

Since the camera is now here and in our possession, we will be getting the CMount lens from ben to put on our camera. Before we can play with it in the lab we need to install driver software on lab computer as well as make sure Dr. Schiele's LabView has the Image Acquisition software. We have a meeting date set with him in the lab for Friday 2/17/17 to try and do all of the previously listed

### **Action items**

- ✓ Mounting/Lighting
- ✓ Meet with Dr. Schiele

### **Person responsible**

Craig (& Ben?)  
Kelie Gretchen

### **Deadline**

N/A  
Feb 17th

# Team Meeting

February 22, 2017

9:45 A.M.

JML 82

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**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

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## *Minutes*

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**Agenda item:** Camera Purchase

**Discussion:**

Camera has been purchased and will be here by the beginning of next week.

**Conclusions:**

Once camera is here, we can get lens tested out on it and move forward with lens purchase.

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**Agenda item:** Design Review Summary

**Discussion:**

Design review went well for us. Dev and Dr. Schiele offered advice and new options for other implements into our project. We pitched mounting to them and they seemed to think it was a good fit.

**Conclusions:**

Mounting needs to be purchased.

**Action items**

✓ Articulating arm purchase

**Person responsible**

Ben

**Deadline**

N/A

# Team Meeting

March 1, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

## *Minutes*

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**Agenda item:** Mounting Purchase/Camera Delivery?

**Discussion:**

The camera got here and we are ready to try out dev's lens. Ben just needs to bring the lens to JML before we can proceed. The mounting has been purchased over the last week and we just need to wait for it to get here.

**Conclusions:**

Get lens from Ben.

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**Agenda item:** Software updating

**Discussion:**

After meeting with Dr. Schiele there are a number of software modules and updates we need to install on his lab computer. IT has been contacted for admin permission and Dev has emailed Dr. Schiele to let him know what to install

**Conclusions:**

We would like to have software updated and installed by spring break.

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**Agenda item:** EXPO Registration

**Discussion:**

Our team needs to be registered for EXPO. We also need to talk about expectations for EXPO with Dev. We would like to have a demonstration of some sort at our booth.

**Conclusions:**

Kelie will register us for expo and we will talk about our expectations as it nears

**Action items**

- ✓ Software updates/installations
- ✓ Lens from firewire camera brought to jml
- ✓ Register for EXPO

**Person responsible**

Dr. Schiele(Kelie/Gretchen)  
Ben  
Kelie

**Deadline**

Before Spring Break  
March 3  
March 4

# Team Meeting

March 8, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev

## *Minutes*

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**Agenda item:** Snapshot recap

**Discussion:**

Snapshot went very well. Design and progress has been discussed with Dev and Dr. Schiele. We will move forward with our code and learn to develop both pattern matchings. We also are progressing with mounting arm purchase as well as continuing playing with our camera.

**Conclusions:**

Ben needs to bring Dev's lens back to JML so we can play around with it a bit. We will look into how we want to integrate the system with Dr. Schiele.

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**Agenda item:** Progress on Mount and Labview

**Discussion:**

The articulating arms is being ordered and awaiting arrival. Should be here sometime in the next week. Gretchen and Kelie will be working on trying to get the labview program to track both dots simultaneously as well as show the displacement.

**Conclusions:**

We need to finish getting software updated before we can move onto pattern matching issues. We also need to start considering how we would like to pull everything together.

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**Agenda item:** Deadlines for before and after Spring Break

**Discussion:**

During spring break we will look into displacement charts and controls for labview. We also need to be researching why we are having compatibility issues within labview

**Conclusions:**

Everyone needs to get their citizenship forms in, update the wiki page and also get the portfolio filled out with our purchase orders and component data sheets.

**Action items**

- ✓ Software updates/installations
- ✓ Lens from firewire camera brought to jml
- ✓ Research assigned tasks

**Person responsible**

Dr. Schiele(Kelie/Gretchen)  
Ben  
Everyone

**Deadline**

Before Spring Break  
Before Spring Break  
During Spring Break



# Team Meeting

March 22, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

## *Minutes*

**Agenda item:** What happened over spring break?

### **Discussion:**

Everyone got their research done and we are progressing as planned minus a few issues. The camera and lens were stolen... ☹ Not really sure where to go from here.

### **Conclusions:**

We will continue looking for the missing lens and camera, maybe it got misplaced or a grad student borrowed it? Dr. Schiele will be informed. Dev is going to let the department know.

**Agenda item:** Mounting/Lens

### **Discussion:**

The mounting is here and we like it. We also need to look into getting our own lens.

### **Conclusions:**

. We will find a time to get into Dr. Schieles lab and make sure the mount works.

### **Action items**

- ✓ Check out mounting arm on bioreactor frame
- ✓ Look for missing camera
- ✓ Research lenses

### **Person responsible**

Benn & Craig  
All  
Kelie

### **Deadline**

March 25  
ASAP  
April 1

# Team Meeting

March 29, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

## *Minutes*

**Agenda item:** Lost Camera/Lens

**Discussion:**

We still have not found the lens or camera

**Conclusions:**

Talk to Dr. Schiele about getting a new lens/camera. Dev says to proceed on purchase of a new camera and lens

**Agenda item:** Wiki page review

**Discussion:**

Gretchen wen to meeting to talk about edits on our wikipages

**Conclusions:**

Kelie and Gretchen we will continue to get wikipage stuff done.

**Action items**

- ✓ Order new lens/camera
- ✓ Look for missing camera
- ✓ Wikipage

**Person responsible**

Kelie  
All  
Gretchen

**Deadline**

N/A  
ASAP  
N/A

# Team Meeting

April 5, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev

## *Minutes*

**Agenda item:** Camera and Lens

**Discussion:**

New camera is ordered and here

**Conclusions:**

We will pick up the new camera and lens and work it into our program

**Agenda item:** Splitting things up

**Discussion:**

Kelie and Gretchen will continue working on our code while Ben and Craig will work on mounting, and begin looking at expo stuff.

**Action items**

- ✓ Work on code
- ✓ Look for missing camera
- ✓ Mounting/Expo Stuff

**Person responsible**

Kelie/Gretchen  
All  
Ben/Craig

**Deadline**

N/A  
ASAP  
N/A

# Team Meeting

April 12, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

## *Minutes*

**Agenda item:** Code progress

### **Discussion:**

The code is now tracking both points separately. We would like to continue adding the strain analysis

### **Conclusions:**

Kelie and Gretchen are working on getting strain analysis with our displacement now that the two dots are being tracked.

**Agenda item:** Finalizing things

### **Discussion:**

Expo is a few weeks away which mean we need to get started on the final report which is due the week following expo. We also need to get the poster started and finished by April 22<sup>nd</sup>. The presentation also needs to be started .

### **Action items**

- ✓ Work on code
- ✓ Presentation & Poster
- ✓ Report

### **Person responsible**

Kelie/Gretchen  
All  
All

### **Deadline**

N/A  
April 22  
May 5

# Team Meeting

April 19, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev, Ben

## *Minutes*

**Agenda item:** Code progress

### **Discussion:**

The code has progressed to the point where strain analysis is able to be done along with a plot/chart of it. We also have worked out all the kinks with the pattern matching.

### **Conclusions:**

Kelie and Gretchen will work on getting the displacement and strain from pixels to an actual distance.

**Agenda item:** Finalizing things

### **Discussion:**

The poster and presentation have been split up and almost completed. We would like to get it done by this Friday April 21 then sent to dev for approval by the 22<sup>nd</sup>. Kelie has started the report and we are all starting to work on the parts we accomplished throughout the year. We would like that finalized by May 4<sup>th</sup> and turned in by May 5<sup>th</sup>.

### **Action items**

- ✓ Work on code
- ✓ Presentation & Poster Finished
- ✓ Report Finished

### **Person responsible**

Kelie/Gretchen  
All  
All

### **Deadline**

N/A  
April 22  
May 5

# Team Meeting

April 26, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Gretchen, Dev

## *Minutes*

**Agenda item:** Code progress

### **Discussion:**

We have everything in the code working. We are going into Dr. Schieles lab today to get the code implemented into his motor control codes. The new lens is still arriving due to distortion in the first purchased lens.

### **Conclusions:**

Kelie and Gretchen have finished the code and are now going to integrate it with the clients lab.

**Agenda item:** EXPO

### **Discussion:**

We have the poster and presentation completed and practiced it a few times. We will practice more today for the technical presentation.

### **Action items**

- ✓ Integrate
- ✓ Practice presentation
- ✓ Report Finished

### **Person responsible**

Kelie/Gretchen  
All  
All

### **Deadline**

April 26  
April 26  
May 5

# Team Meeting

May3, 2017

9:45 A.M.

JML 82

**Meeting called by:** The Dev-elopers

**Type of meeting:** Weekly team meeting

**Attendees:** Kelie, Craig, Dev

## *Minutes*

**Agenda item:** Final Report

### **Discussion:**

The final report is almost finished. Craig and Kelie will try to finish it up and delegate sections to Gretchen and Ben when we see them next time

### **Conclusions:**

Dev went over a checklist of things we need done before the semester is over and everything is done except our report and portfolio which we will have finalized and turned in by Friday May 5<sup>th</sup>.

**Agenda item:** EXPO

### **Discussion:**

Expo went well for us. We feel we accomplished what we wanted to, Dr. Schiele and Dev seem pleased we just need to work on getting the camera working with our code.

### **Action items**

- ✓ Check code/camera drivers
- ✓ Report Finished

### **Person responsible**

Kelie/Gretchen  
All

### **Deadline**

N/A  
May 5